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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/917,729	07/31/2001	Masahiro Terada	0879-0345P	1253
2292 7590 04/23/2007 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			EXAMINER SHIN, KYUNG H	
			ART UNIT 2143	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE			NOTIFICATION DATE	
3 MONTHS			04/23/2007	
			DELIVERY MODE ELECTRONIC	

**Please find below and/or attached an Office communication concerning this application or proceeding.**

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<b>Office Action Summary</b>	<b>Application No.</b>		<b>Applicant(s)</b>	
	09/917,729		TERADA, MASAHIRO	
	<b>Examiner</b>		<b>Art Unit</b>	
	Kyung H. Shin		2143	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 23 January 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-53 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-53 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Response to Amendment***

1. This action is responding to application papers filed 1/23/2007.
2. Claims 1 - 53 are pending. Claim 22 has been amended. Claims 43 - 53 are new. Independent claims are 1, 3, 5, 8, 9, 10, 16, 18, 20, 32, 34, 36.

### ***Response to Arguments***

3. Applicant's arguments filed 1/23/07 have been fully considered but they are not persuasive.

3.1 Applicant argues that the referenced prior art does not disclose, "...  
*analogous referenced prior art ...*". (see Remarks Pages 28-34)

The Parulski, Noro, Jebens, and Sloane set of referenced prior art is analogous art. The referenced prior art discloses a digital image management and processing system with network communication capabilities.

(a) Parulski (6,836,617) prior art: (see Parulski col. 2, lines 52-54: image management, network communications)

(b) Noro (6,646,677) prior art: (see Noro col. 6, lines 38-44: image management, network communications)

- (c) Jebens (6,332,146) prior art: (see Jebens col. 2, lines 15-18; col. 2, lines 32-34: image management capability ; col. 2, lines 40-42: network communications)
- (d) Sloane (5,918,211) prior art: (see Sloane col. 4, lines 3-8: image management capability ; col. 7, lines 15-22: network communications)

3.2 Applicant argues that the referenced prior art does not disclose, “ ... *not in possession to be used* ... “. (see Remarks Pages 32, 34)

The Parulski and Noro prior art combination discloses a registered user or an individual in possession of the camera device. (see Noro col. 9, lines 44-48; col. 22, lines 64-67: registered user)

3.3 Applicant argues that the referenced prior art does not disclose, “ ... *claim limitations* ... “. (see Remarks Pages 30-40)

The limitations of claim 1 are (1) record images; (2) display a service menu; (3) identification information; (4) select an image and a service for processing.

The Parulski prior art discloses the recording of images. (see Parulski col. 10, lines 57-65: recording images) In addition, the Parulski prior art discloses a communications apparatus consisting of a service center, and a server with the capability for the network transmission of image data. (see Parulski col. 5, lines 37-40: display system ; col. 4, lines 26-30: product customization center (i.e. service center) with image processing capabilities;

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col. 5, lines 6-9; col. 4, lines 63-65: network server, network communication capabilities)

And, the Parulski prior art discloses the capability to display a menu with options, which displays of a set of available services for a user. (see Parulski col. 5, lines 37-40: display system ; col. 17, lines 10-18; col. 3, lines 55-60; col. 18, lines 4-6: menu of available services (i.e. image processing (upload/storage) entry in menu))

The Parulski and Noro prior art combination discloses the capability for the network transmission of identification information for a camera. (see Noro col. 8, lines 47-51: camera identification information transmitted between network connected systems (i.e. entities)), and The Parulski and Noro prior art combination discloses the capability to have a registered user access the image management system.. (see Noro col. 9, lines 44-48; col. 22, lines 64-67: registered user)

3.4 Applicant argues that the referenced prior art does not disclose, " ... identification information ... ", " ... registered user identified by identification information ... ". (see Remarks Page 35)

The Parulski and Noro prior art combination discloses the capability for the network transmission of identification information for a camera, and the capability for a registered user. (see Noro col. 8, lines 47-51: camera

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identification information transmitted between network connected systems (i.e. entities); col. 9, lines 44-48; col. 22, lines 64-67: registered user)

3.5 Applicant argues that the referenced prior art does not disclose, “ ...

*password authentication ... “. (see Remarks Page 40-42)*

The Parulski prior art discloses the usage of password and access control determined by password. (see Jebens col. 2, lines 15-18; col. 11, lines 32-42; col. 11, line 62 - col. 12, line 3; col. 20, lines 29-36: image processing system, password utilization by image processing system)

3.6 Applicant argues that the referenced prior art does not disclose, “ ... *after sales ... “*, “... *registered users ... “. (see Remarks Page 42-45)*

The Parulski prior art discloses the capability for the transmission of information between the user and service center. (see Parulski col. 20, lines 39-45: user accounting information processed) The Parulski and Sloane prior art combination discloses the capability to collect and process after-sales information. This prior art combination includes the capability to transmit this type of information between a user and an image management system. (see Sloane col. 4, lines 28-32; col. 7, lines 30-41: after-sales history information maintained and processed)

The Parulski, Sloane, and Noro prior art combination discloses registered users. (see Noro col. 9, lines 44-48; col. 22, lines 64-67: registered user)

3.7 Applicant argues that the a primary reference and a secondary reference combination under 35 U.S.C. § 103 is not allowed due to nonobviousness. The test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).

Furthermore, in response to applicant's arguments against the reference individually, one cannot show nonobviousness by attacking references individually where rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

3.8 The examiner has considered the applicant's remarks concerning the image management system utilizing a camera or recording devices. Applicant's arguments have thus been fully analyzed and considered but they are not persuasive.

After an additional analysis of the applicant's invention, remarks, and a search of the available prior art, it was determined that the current set of prior art consisting of **Parulski (6,836,617)**, **Noro (6,646,677)**, **Jebens (6,332,146)**

and **Sloane (5,918,211)** discloses the applicant's invention including disclosures in Remarks dated January 23, 2007.

***Claim Rejection – 35 USC § 103***

4. **Claims 1 - 8, 10 - 15, 20 - 22, 24 - 26, 28 - 30, 32, 40, 41, 43 - 53** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Parulski (US Patent No. 6,836,617)** in view of **Noro et al. (US Patent No. 6,646,677)**.

**Regarding Claim 1**, Parulski discloses a communication apparatus, comprising:

- b) a displaying device that displays the images received from the recording device by the first communication device and displays a service menu associated with the identification information and enabled for a user identified by the identification information; (see Parulski col. 6, lines 18-22; col. 12, lines 34-41; col. 17, lines 10-18; col. 19, lines 49-54: network connected server, image display device, service menu utilized; col. 10, lines 57-65: recording of images, recording device)
- c) a selecting device that selects an image among the images displayed by the displaying device and selects a service among the services displayed by the displaying device; (see Parulski col. 12, lines 34-41; col. 19, lines 49-54: select image for processing, menu capabilities (i.e. select a service)) and



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Parulski discloses a communications apparatus that receives images. (see Parulski col. 4, lines 26-30: product customization center (i.e. service center) with image processing capabilities; col. 5, lines 6-9; col. 4, lines 63-65: network server, network communication capabilities; col. 17, lines 16-18: image upload capability), and wherein a recording device for recording at least one of image data and voice on a recording medium (see Parulski col. 10, lines 57-65: recording of images, recording device). Parulski does not specifically disclose identification information for a camera device of a user, the transmission of identification information for a camera device of a user, nor the capability for a registered user.

However, Noro discloses:

- a) identification information of a owned by a user from the device; (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device)
- d) a second communication device that transmits the identification information, (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device)

In addition, Noro discloses wherein the capability for a registered user. (see Noro col. 9, lines 44-48; col. 22, lines 64-67: registered user)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device as taught by Noro. One of ordinary skill in the

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art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52: “ ... *On the other hand, in order to satisfactorily attain camera control at the client having the right of camera access, images are preferably reproduced in real time so as to recognize images of the sensed object in real time ...* ”)

**Regarding Claim 2**, Parulski discloses the communication apparatus as defined in claim 1,

- a) wherein the first communication device automatically starts communicating with the recording device when the user connects the recording device with the first communication device; (see Parulski col. 13, lines 46-50: images displayed when connected to camera; col. 10, lines 57-65: recording of images, recording device) and
- b) wherein the second communication device starts communicating with the service center through the network as need arises. (see Parulski col. 17, lines 10-18; col. 19, lines 49-54: menu initiated actions to initiate processing by server)

**Regarding Claim 3**, Parulski discloses a server, comprising:

- a) a communication device that receives information of a camera used by a user identified by the identification information; (see Parulski col. 20, lines 15-23: database accessed to retrieve user personalization information that designates particular user camera)

- b) a recording device that records the information and a service menu associated with the identification information and enabled for the user identified by the identification information; (see Parulski col. 18, lines 27-30; col. 19, lines 49-54: database user personalization information, service menu utilized) and
- c) a reading device that reads the service menu from the recording device according to the information; wherein the communication device transmits the service menu to the user. (see Parulski col. 19, lines 49-54: menu capabilities utilized to process services)

Parulski does not disclose identification information for a camera device of a user. However, Noro discloses identification information for a user camera. (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device), and wherein registered user identified by the identification information. (see Noro col. 9, lines 44-48; col. 22, lines 64-67: registered user)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device, and the capability for a registered user as taught by Noro. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

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**Regarding Claims 4, 7, 12, 15**, Parulski discloses the server and service center as defined in claims 3, 5, 10, 13, further comprising:

- a) a payment information recording device that records the identification information and a method of payment; (see Parulski col. 8, lines 31-37; col. 8, lines 44-49: payment capabilities for provided services)
- b) a payment method reading device that reads the method of payment from the payment information recording device according to the identification information received; (see Parulski col. 8, lines 31-37; col. 8, lines 44-49: payment capabilities for provided services) and
- c) a charge receiving device that receives a charge for a service in accordance with the method of payment read by the payment method reading device. (see Parulski col. 8, lines 31-37; col. 8, lines 44-49: payment charged to financial institution)

**Regarding Claim 5**, Parulski discloses a server, comprising:

- a) a communication device that receives information of a camera used by a user identified by the identification information; (see Parulski col. 20, lines 15-23: database accessed to retrieve user personalization information that designates particular user camera)
- b) a recording device that records user setting information on the user and a service menu showing services to be offered to the user; (see Parulski col. 18, lines 27-

30; col. 19, lines 49-54: database user personalization information, service menu utilized) and

- c) a device that reads the service menu from the recording device according to the information; wherein the communication device transmits the service menu to the user. (see Parulski col. 19, lines 49-54: menu capabilities utilized to process services)

Parulski does not disclose identification information for a camera device of a user. However, Noro discloses identification information for a user camera (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device), and wherein the capability for a registered user. (see Noro col. 9, lines 44-48; col. 22, lines 64-67: registered user)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device, and the capability for a registered user as taught by Noro. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

**Regarding Claim 6**, Parulski discloses the server as defined in claims 5, wherein the user setting information includes at least one of the following: a delivery address, a distribution destination of image or audio data, a financial source, a password, an

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address, a name, a gender, a birthday and an age. (see Parulski col. 4, lines 1-4: user information (i.e. name, address, e-mail address))

**Regarding Claim 8**, Parulski discloses a server, comprising:

- a) a communication device that receives information of a camera used by a user identified by the identification information; (see Parulski col. 20, lines 15-23: database accessed to retrieve user personalization information that designates particular user camera)
- b) a recording device that records utility data showing services enabled for the user and being associated with the identification information; (see Parulski col. 18, lines 27-30: database user personalization (i.e. utility) data used to provide offered services)
- c) a reading device that reads the utility data from the recording device according to the information; (see Parulski col. 18, lines 27-30: database accessed to retrieve user personalization (i.e. utility) data providing user services) and
- d) a determining device that determines an order of services in a service menu to be offered to the user in accordance with the utility data; (see Parulski col. 7, line 66 - col. 8, line 4; col. 17, lines 10-18; col. 19, lines 49-54: preferred menu offerings capabilities utilized)
- e) wherein the communication device transmits the service menu showing the services in the order determined by the determining device. (see Parulski col. 17, lines 10-18; col. 19, lines 49-54: menu capabilities utilized)

Parulski does not specifically disclose wherein the capability for a registered user.

However, Noro discloses wherein the capability for a registered user: (see Noro col. 9, lines 44-48; col. 22, lines 64-67: registered user)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device, and the capability for a registered user as taught by Noro. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

**Regarding Claim 10**, Parulski discloses a service center, comprising:

- a) a communication device that receives identification information of a camera used by a user identifier by the identification information and service information, or receives the identification information, an image and the service information from the user; (see Parulski col. 20, lines 15-23: database accessed to retrieve user personalization information that designates particular user camera)
- b) a recording device that records user information on the user associated with the identification information; (see Parulski col. 18, lines 27-30: database user personalization (i.e. utility) data used to provide offered services) and
- c) a device that reads from the recording device the user information associated with the identification information received by the communication device to

specify the user, and provides a service corresponding to the service information to the user. (see Parulski col. 18, lines 27-30: database accessed to retrieve user personalization (i.e. utility) data providing user services)

Parulski does not specifically disclose wherein the capability for a registered user. However, Noro discloses wherein the capability for a registered user. (see Noro col. 9, lines 44-48; col. 22, lines 64-67: registered user)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the capability for a registered user as taught by Noro. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

**Regarding Claims 11, 14,** Parulski discloses the service center as defined in claims 10, 13, wherein the user information includes at least one of the following: a delivery address, a distribution destination of image or audio data, a financial source, a password, an address, a name, a gender, a birthday and an age. (see Parulski col. 4, lines 1-4: user information (i.e. name, address, e-mail address))

**Regarding Claim 13,** Parulski discloses the service center as defined in claim 10, wherein the service includes at least one of the following: an image or audio distributing service, an image printing service, a service for publicly opening an image on a network,



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and a service for saving an image in a server. (see Parulski col. 3, lines 55-60; col. 17, lines 16-18; col. 19, line 66 - col. 20, line 3: image processing system, upload (i.e. save) image to a server for distribution)

**Regarding Claim 20**, Parulski discloses a service method, comprising the following steps of:

- b) displaying the images and a service menu associated with the identification information and enable for the user identified by the identification information on a displaying device of the communication apparatus; (see Parulski col. 12, lines 34-41; col. 19, lines 49-54: display images, menu capabilities utilized)
- c) selecting a service from the service menu, or selecting the service and an image among the images; (see Parulski col. 19, lines 49-54: menu capabilities utilized (i.e. select image or service)) and

Parulski does not specifically disclose identification information for a camera device of a user. However, Noro discloses the identification information for a user camera. (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device)

- a) receiving images from a camera used by a user identified by identification information connected with a communication apparatus; (see Parulski col. 12, lines 34-41: image display device)

- d) transmitting the identification information and service information indicating the service selected, or transmitting the identification information, the service information and the images through a network. (see Noro col. 8, lines 47-51: camera identification information transmitted between network connected systems (i.e. entities))

Parulski does not specifically disclose wherein the capability for a registered user. However, Noro discloses wherein the capability for a registered user. (see Noro col. 9, lines 44-48; col. 22, lines 64-67: registered user)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device, and the capability for a registered user as taught by Noro. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

**Regarding Claim 21**, Parulski discloses the service method as defined in claim 20, wherein:

- c) the server reads from the recording device the user information associated with the information received by the communication apparatus from the service center and transmits the read user information to the service center. (see Parulski col. 5,

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lines 6-9: network server ; col. 6, lines 18-22; col. 19, lines 49-54: network connected server, menu capabilities utilized (i.e. response transmitted to server))

Parulski does not specifically disclose the transmission of identification information for a camera device of a user. In addition, Parulski discloses:

- a) the communication apparatus connects to the service center and transmits the information and the image to the service center; (see Parulski col. 4, lines 26-30: product customization center (i.e. service center) with image processing capabilities; col. 5, lines 6-9; col. 4, lines 63-65: network server, network communication capabilities ; col. 17, lines 16-18; col. 19, line 66 - col. 20, line 3: upload image to server)
- b) the server which communicates with the communication apparatus through the network has a recording device that records the information and user information on the user; (see Parulski col. 5, lines 6-9: network server ; col. 6, lines 18-22; col. 18, lines 27-30; col. 20, lines 39-45: network connected server, database user personalization information)

Parulski does not specifically discloses a registered user. However, Noro discloses identification information for a registered user camera. (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device; col. 9, lines 44-48; col. 22, lines 64-67: registered user)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device, and the capability for a registered user as taught by Noro. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

**Regarding Claim 22**, Parulski discloses the service method as defined in claim 20, wherein:

- c) the server reads from the recording device the user information associated with the information received by the communication apparatus from the service center and transmits the read user information to the service center. (see Parulski col. 5, lines 6-9: network server ; col. 6, lines 18-22; col. 19, lines 49-54: network connected server, menu capabilities utilized (i.e. response transmitted to server))

Parulski does not specifically disclose the transmission of identification information for a camera device of a user. However, Noro discloses identification information for a user camera. (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device)

- a) the communication apparatus connects to the service center and transmits the information and the image to the service center; (see Parulski col. 4, lines 26-30: product customization center (i.e. service center) with image processing

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capabilities; col. 5, lines 6-9; col. 4, lines 63-65: network server, network communication capabilities ; col. 17, lines 16-18; col. 19, line 66 - col. 20, line 3: upload image to server)

- b) the server which communicates with the communication apparatus through the network has a recording device that records user information and user information on the user; (see Parulski col. 5, lines 6-9: network server ; col. 6, lines 18-22; col. 18, lines 27-30; col. 20, lines 39-45: network connected server, database user personalization information)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device as taught by Noro. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

**Regarding Claim 24**, Parulski discloses the service method as defined in claim 20, wherein:

- a) a server which communicates with the communication apparatus through the network has a recording device that records the service menu associated with the information and the service menu; (see Parulski col. 6, lines 18-22; col. 18, lines 27-30: network connected server, database user personalization information; menu of available services (i.e. image processing (upload/storage) entry in menu)) and

- b) the server selects from the recording device the service menu associated with the information from the user and transmits the selected service menu to the user. (see Parulski col. 6, lines 18-22; col. 19, lines 49-54 ; col. 17, lines 10-18; col. 3, lines 55-60; col. 18, lines 4-6: network connected server, menu capabilities utilized)

Parulski does not specifically disclose identification information for a camera device of a user. However, Noro discloses identification information for a user camera (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device), and the capability for a registered user (see Noro col. 9, lines 44-48; col. 22, lines 64-67: registered user).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device, and the capability for a registered user as taught by Noro. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

**Regarding Claims 25, 29**, Parulski discloses the service method as defined in claims 24, 28, wherein:

- a) the communication apparatus connects to the service center and transmits the information and the image to the service center; (see Parulski col. 17, lines 16-18; col. 19, line 66 - col. 20, line 3: upload image to server)
- b) the server which communicates with the communication apparatus through the network has a recording device that records the information and user information on the user; (see Parulski col. 6, lines 18-22; col. 18, lines 27-30; col. 20, lines 39-45: network connected server, database user personalization information) and
- c) the server reads the user information from the recording device on reception of the information from the service center and transmits the user information to the service center. (see Parulski col. 6, lines 18-22; col. 19, lines 49-54: network connected server, menu capabilities utilized (i.e. response transmitted to server))

Parulski does not disclose identification information for a camera device of a user. However, Noro discloses identification information for a user camera (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device), and the capability for a registered user. (see Noro col. 9, lines 44-48; col. 22, lines 64-67: registered user)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device, and the capability for a registered user as taught by Noro. One of ordinary skill in the art would be motivated to employ Noro in

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order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

**Regarding Claims 26, 30**, Parulski discloses the service method as defined in claims 24, 28, wherein:

- a) the communication apparatus connects to the service center and transmits the information and the image to the service center; (see Parulski col. 17, lines 16-18; col. 19, line 66 - col. 20, line 3: upload image to server)
- b) the server which communicates with the communication apparatus through the network has a recording device that records the information and user information on the user; (see Parulski col. 6, lines 18-22; col. 18, lines 27-30; col. 20, lines 39-45: network connected server, database user personalization information) and
- c) the server reads the user information from the recording device on reception of the information from the service center and transmits the user information to the service center. (see Parulski col. 6, lines 18-22; col. 19, lines 49-54: network connected server, menu capabilities utilized (i.e. response transmitted to server))

Parulski does not disclose identification information for a camera device of a user. However, Noro discloses identification information for a user camera. (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device)



It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device as taught by Noro. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

**Regarding Claim 28**, Parulski discloses the service method as defined in claim 20, wherein:

- a) a server which communicates with the communication apparatus through the network has a recording device that records the information and utility information related to services used by the user; (see Parulski col. 6, lines 18-22; col. 18, lines 27-30; col. 19, lines 49-54: server system, database (i.e. records), user personalization information, menu capabilities) and
- b) the server reads from the recording device the utility information associated with the information received from the user, determines an order of the services in the service menu in accordance with the utility information, and transmits the read service menu in the order to the user. (see Parulski col. 5, lines 37-40: display system ; col. 17, lines 10-18; col. 19, lines 49-54; col. 3, lines 55-60; col. 18, lines 4-6: menu of available services (i.e. image processing (upload/storage) entry in menu))

Parulski does not specifically disclose identification information for a camera device of a user, or the capability for a registered user. However, Noro discloses identification information for a user camera (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device), and wherein the capability for a registered user (see Noro col. 9, lines 44-48; col. 22, lines 64-67: registered user).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device, and the capability for a registered user as taught by Noro. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

**Regarding Claim 32**, Parulski discloses a service method in which a recording device records user information on a user identified by identification information of a camera, and at least one of the following is offered: an image or audio distributing service, an image printing service, a service for publicly opening an image on a network, and a service for saving an image in a server, said service method comprising the steps of:

- a) receiving the information and service information indicating a service, or receiving the information, an image and the service information from the user; reading from the recording device the user information associated with the received information to specify the user, and providing the service to the user. (see

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Parulski col. 18, lines 27-30; col. 7, line 66 - col. 8, line 4; col. 17, lines 10-18; col. 19, lines 49-54: database containing user personalization information, menu capabilities to provide services)

Parulski does not specifically disclose identification information for a camera device of a user. However, Noro discloses identification information for a user camera (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device), and the capability for a registered user (see Noro col. 9, lines 44-48; col. 22, lines 64-67: registered user).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device as taught by Noro, and the capability for a registered user. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

**Regarding Claim 40**, Parulski discloses the server as defined in claim 3, wherein the reading device reads the service menu according to a function of the camera. (see Parulski col. 5, lines 37-40: display system ; col. 17, lines 10-18; col. 3, lines 55-60; col. 18, lines 4-6: menu of available services (i.e. image processing (upload/storage) entry in menu)) Parulski does not specifically disclose the transfer of identification information for a user camera. However, Noro discloses wherein the camera that is specified by the

identification information. (see Noro col. 8, lines 47-51: camera identification information transmitted between network connected systems (i.e. entities))

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device as taught by Noro. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

**Regarding Claim 41**, Parulski discloses the server as defined in claim 3, wherein the reading device reads the service menu according to a user of the camera. (see Parulski col. 5, lines 37-40: display system ; col. 17, lines 10-18; col. 3, lines 55-60; col. 18, lines 4-6: menu of available services (i.e. image processing (upload/storage) entry in menu)) Parulski does not specifically disclose the transfer of identification information for a user camera. However, Noro discloses wherein the camera that is specified by the identification information (see Noro col. 8, lines 47-51: camera identification information transmitted between network connected systems (i.e. entities)), and the capability for a registered user (see Noro col. 9, lines 44-48; col. 22, lines 64-67: registered user).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device as taught by Noro. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

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**Regarding Claims 43, 47, 48,** Parulski discloses the communication apparatus as defined in claims 1, 5, 10, wherein the first communication device is configured to receive, from the recording device, user setting data associated with the registered user identified by the identification information. (see Parulski col. 18, lines 27-30; col. 19, lines 49-54: database user personalization information; col. 4, lines 1-4: user information (i.e. name, address, e-mail address))

**Regarding Claims 44, 46, 50, 53,** Parulski discloses the communication apparatus, server, service method as defined in claims 43, 46, 49, 51, wherein the user setting data include at least one of a delivery address, a distribution destination of image or audio data, a financial source, a password, an address, a name, a gender, a birthday and an age of the registered user. (see Parulski col. 4, lines 1-4: user information (i.e. name, address, e-mail address))

**Regarding Claim 45,** Parulski discloses the server as defined in claim 3, wherein the recording device is configured to record the user information of the registered user, and wherein the reading device is configured to read the service menu according to the user information of the registered user. (see Parulski col. 5, lines 37-40: display system ; col. 17, lines 10-18; col. 19, lines 49-54; col. 3, lines 55-60; col. 18, lines 4-6: menu of available services (i.e. image processing (upload/storage) entry in menu))

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**Regarding Claim 49**, Parulski discloses the service method as defined in claim 20, further comprising:

- a) recording user information of the registered user in the camera; (see Parulski col. 18, lines 27-30; col. 19, lines 49-54: database user personalization information, service menu utilized)

transmitting the user information from the communication apparatus to a server through the network, wherein the step of displaying the service menu on the displaying device of the communication apparatus includes:

- c) customizing, in the server, the service menu based on the identification information of the camera and based on the user information of the registered user; (see Parulski col. 4, lines 26-30: product customization center (i.e. service center) with image processing capabilities; col. 5, lines 6-9; col. 4, lines 63-65: network server, network communication capabilities; col. 17, lines 16-18: image upload capability)
- d) transmitting the service menu from the server to the communication apparatus through the network; (see Parulski col. 19, lines 49-54: menu capabilities utilized to process services) and
- e) displaying the service menu on the displaying device of the communication apparatus. (see Parulski col. 6, lines 18-22; col. 12, lines 34-41; col. 17, lines 10-18; col. 19, lines 49-54: network connected server, image display device, service menu utilized; col. 10, lines 57-65: recording of images, recording device)

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Noro discloses:

- b) transmitting the user information of the registered user to from the camera to the communication apparatus; (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device) and

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device as taught by Noro. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

**Regarding Claim 51**, Parulski discloses the service method as defined in claim 20, further comprising:

- a) recording, in a server, user information of the registered user in association with the identification information of the camera; (see Parulski col. 18, lines 27-30; col. 19, lines 49-54: database user personalization information, service menu utilized) wherein the step of displaying the service menu on the displaying device of the communication apparatus includes:
- b) retrieving, in the server, the user information of the registered user based on the identification information of the camera received from the communication apparatus; (see Parulski col. 20, lines 15-23: database accessed to retrieve user personalization information that designates particular user camera)

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- c) customizing, in the server, the service menu based on the identification information of the camera and based on the user information of the registered user; (see Parulski col. 4, lines 26-30: product customization center (i.e. service center) with image processing capabilities; col. 5, lines 6-9; col. 4, lines 63-65: network server, network communication capabilities; col. 17, lines 16-18: image upload capability)
- d) transmitting the service menu from the server to the communication apparatus through the network; (see Parulski col. 19, lines 49-54: menu capabilities utilized to process services) and
- d) displaying the service menu on the displaying device of the communication apparatus. (see Parulski col. 6, lines 18-22; col. 12, lines 34-41; col. 17, lines 10-18; col. 19, lines 49-54: network connected server, image display device, service menu utilized; col. 10, lines 57-65: recording of images, recording device)

**Regarding Claim 52**, Parulski discloses the service method as defined in claim 51.

Parulski does not specifically disclose a registered user and the transfer of identification information of the camera identification information for a camera device of a user, nor the capability for a registered user (i.e. purchaser). However, Noro discloses further comprising: transmitting, to the server, the user information of the registered user and the identification information of the camera at a time of purchase of the camera by the registered user prior to recording the user information in the server. (see Noro col. 8,



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lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device; col. 9, lines 44-48; col. 22, lines 64-67: registered user)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device as taught by Noro. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

5. **Claims 9, 23, 27, 31, 38, 39** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Parulski-Noro** and further in view of **Jebens et al.** (US Patent No. 6,332,146).

**Regarding Claim 9**, Parulski discloses a server, comprising:

- a) a communication device that receives information of a camera used by a user identifier by the identification information from the user; (see Parulski col. 12, lines 34-41: image data from camera displayed)
- b) a recording device that records the information; (see Parulski col. 18, lines 27-30: database storage of user information)
- c) a verifying device that reads from the recording device associated with the information received by the communication device; (see Parulski col. 18, lines 27-30: database user personalization information accessed based on user) and

- d) a device that allows services to the user. (see Parulski col. 19, lines 49-54: menu capabilities utilized)

Parulski does not specifically disclose the usage of passwords. However, Noro discloses the usage of identification information for the camera (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device), and the capability for a registered user. (see Noro col. 9, lines 44-48; col. 22, lines 64-67: registered user), and Jebens discloses (a) a password associated, (c) verifies the received password received by the communications device with read password, (d) prohibits the services to the user when the password are different. (see Jebens col. 2, lines 15-18; col. 11, lines 32-42; col. 11, line 62 - col. 12, line 3; col. 20, lines 29-36: image processing system, password utilization by image processing system)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device, and the capability for a registered user as taught by Noro, and to enable the usage of a password for authentication as taught by Jebens. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control (see Noro col. 3, lines 48-52), and to employ Jebens in order to efficiently reuse digital imagery and reduce costs and difficulties (see Jebens col. 2, lines 8-12: "... costs and difficulties can arise in instances where it becomes desirable to re-use a digital

*asset in a different publication or in a different format altogether (e.g., utilizing an image from a movie in an advertizing brochure) ... ").*

**Regarding Claim 23**, Parulski discloses the service method as defined in claims 20, wherein:

- a) the server which communicates with the communication apparatus through the network has a recording device that records the identification information and a password of the user; (see Parulski col. 4, lines 26-30: product customization center (i.e. service center) with image processing capabilities; col. 5, lines 6-9; col. 4, lines 63-65: network server, network communication capabilities) and
- b) the server reads from the recording device the password associated with the received identification information verifies a password received from the user with the password read from the recording device, and then allows the service when the passwords are the same and prohibits the service when the passwords are different. (see Parulski col. 4, lines 26-30: product customization center (i.e. service center) with image processing capabilities; col. 5, lines 6-9; col. 4, lines 63-65: network server, network communication capabilities)

Parulski does not specifically disclose the usage of passwords. However, Noro discloses the usage of identification information for the camera (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device), and the capability for a registered user (see Noro col. 9, lines 44-48; col.

22, lines 64-67: registered user), and Jebens discloses (a) a password of the user, (c) verifies the password received by the communications device with password read, (d) prohibits the services to the user when the password are different (see Jebens col. 2, lines 15-18; col. 11, lines 32-42; col. 11, line 62 - col. 12, line 3; col. 20, lines 29-36: image processing system, password utilization by image processing system).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device, and the capability for a registered user as taught by Noro, and to enable the usage of a password for authentication as taught by Jebens. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control (see Noro col. 3, lines 48-52), and to employ Jebens in order to efficiently reuse digital imagery and reduce costs and difficulties (see Jebens col. 2, lines 8-12).

**Regarding Claims 27, 31**, Parulski discloses the service method as defined in claims 24, 28, wherein:

- a) a communication device that receives information of a camera owned by a user from the user; (see Parulski col. 12, lines 34-41: image data from camera displayed)
- b) a recording device that records the information; (see Parulski col. 18, lines 27-30: database storage of user information)

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- c) a verifying device that reads from the recording device according to the information by the communication device; (see Parulski col. 18, lines 27-30: database user personalization information accessed based on user) and
- d) a device that allows services to the user. (see Parulski col. 19, lines 49-54: menu capabilities utilized)

Parulski does not disclose the usage of passwords. However, Noro discloses the usage of identification information for the camera (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device), and the capability for a registered user (see Noro col. 9, lines 44-48; col. 22, lines 64-67: registered user), and Jebens discloses (a) a password of the user, (c) verifies the password received by the communications device with password read, (d) prohibits the services to the user when the password are different. (see Jebens col. 2, lines 15-18; col. 11, lines 32-42; col. 11, line 62 - col. 12, line 3; col. 20, lines 29-36: image processing system, password utilization by image processing system)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device, and the capability for a registered user as taught by Noro, and to enable the usage of a password for authentication as taught by Jebens. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control (see

Noro col. 3, lines 48-52), and to employ Jebens in order to efficiently reuse digital imagery and reduce costs and difficulties (see Jebens col. 2, lines 8-12).

**Regarding Claim 38**, Parulski discloses the communications apparatus as defined in claim 1, wherein the second communication devices transmits the information to the service center according to an operation mode of the camera in order to utilize the service center. (see Parulski col. 4, lines 26-30: service center with network communications ; col. 5, lines 6-9; col. 4, lines 63-65: network server, network communications) Parulski does not specifically discloses the usage of identification information for a camera and the usage of a password. However, Noro and Jebens disclose wherein identification information to the service center according to an operation mode of the camera. (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device), and Jebens discloses wherein to execute logon to the service center. (see Jebens col. 11, lines 32-42; col. 11, line 62 - col. 12, line 3; col. 20, lines 29-36: password capability)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device as taught by Noro, and to enable the usage of a password for authentication as taught by Jebens. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52), and to employ Jebens in order to

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efficiently reuse digital imagery and reduce costs and difficulties (see Jebens col. 2, lines 8-12).

**Regarding Claim 39**, Parulski discloses the communications apparatus as defined in claim 38, wherein the operation mode of the camera includes an image storage mode and a video conference mode. (see Parulski col. 4, lines 26-30: service center with network communications ; col. 5, lines 6-9; col. 4, lines 63-65: network server, network communications ; col. 19, line 66 - col. 20, line 3: image storage capabilities)

6. **Claims 16 - 19, 33 - 37, 42** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Parulski-Noro** and further in view of **Sloane** (US Patent No. 5,918,211).

**Regarding Claims 16, 18, 34, 36**, Parulski discloses a service center which offers a service on a camera owned by a user in response to a request from the user, the service center comprising:

Parulski does not disclose identification information for a camera device.

However, Noro discloses:

- a) a communication device that receives identification information of the camera from the user; (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device)

Parulski discloses a recording device that records the information and a reading device that reads service information from the recording device according to the information and wherein the communication device transmits service data to the user. (see Parulski col. 3, lines 55-60; col. 19, lines 49-54: service processing system, menu capabilities) Parulski does not disclose the usage of after sales information. However Sloane discloses, wherein:

- b) after-sales service information; (see Sloane col. 4, lines 28-32; col. 7, lines 30-41: utilization of history (i.e. after sales) information in customer management) and
- c) a reading device that reads the after-sales service information; wherein the communication device transmits the read after-sales service information to the user. (see Sloane col. 4, lines 28-32; col. 7, lines 30-41: utilization of history (i.e. after sales) information in customer management)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device as taught by Noro, and to enable the utilization of after sales information in customer management as taught by Sloane. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control (see Noro col. 3, lines 48-52), and to employ Sloane in order to motivate and alter purchasing decisions of customers (see Sloane col. 1, lines 11-15: “... *More particularly, it relates to a method and apparatus for alerting consumers of sales, or other product promotions,*



*to motivate or alter their purchasing decisions at the point-of-purchase, and further, a security system for the apparatus ...").*

**Regarding Claims 17, 19,** Parulski discloses the service center, wherein the service information is updating information of a program for the camera. (see Parulski col. 3, lines 55-60; col. 19, lines 49-54: service processing system, menu capabilities) Parulski does not disclose the usage of after-sales information. However, Sloane discloses as defined in claims 16, 18, wherein the after-sales information is updating information for the camera. (see Sloane col. 4, lines 28-32; col. 7, lines 30-41: utilization of history (i.e. after sales) information in customer management)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device as taught by Noro, and to enable the utilization of after sales information in customer management as taught by Sloane. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control (see Noro col. 3, lines 48-52), and to employ Sloane in order to motivate and alter purchasing decisions of customers (see Sloane col. 1, lines 11-15).

**Regarding Claims 33, 35, 37,** Parulski discloses the service method as defined in claims 32, 34, 36, further comprising:

- a) a payment information recording device that records the identification information and a method of payment; (see Parulski col. 8, lines 31-37; col. 8, lines 44-49: payment capabilities for provided services)
- b) a payment method reading device that reads the method of payment from the payment information recording device according to the identification information received; (see Parulski col. 8, lines 31-37; col. 8, lines 44-49: payment capabilities for provided services) and
- c) a charge receiving device that receives a charge for a service in accordance with the method of payment read by the payment method reading device. (see Parulski col. 8, lines 31-37; col. 8, lines 44-49: payment capabilities for provided services)

Parulski does not disclose identification information for a camera device of a user. However, Noro discloses identification information for a user camera. (see Noro col. 8, lines 47-51; col. 12, lines 50-56: transfer of identification information for a camera device)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the transmission of identification information for a user camera device to enable the transmission of identification information for a user camera device as taught by Noro. One of ordinary skill in the art would be motivated to employ Noro in order to optimize real-time camera control for a client having access control. (see Noro col. 3, lines 48-52)

**Regarding Claim 42**, Parulski discloses the server as defined in claim 8, wherein the utility data includes frequencies in the use of the services. (see Parulski col. 5, lines 6-9: network server system) And, Sloane discloses wherein utility data includes frequencies in the use of the services. (see Sloane col. 4, lines 28-32; col. 7, lines 30-41: utilization of history (i.e. after sales) information in customer management)

The term "frequencies" is not defined within the specification. The frequency of services is the occurrence and collection of after-sales (i.e. history) information.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Parulski to enable the utilization of after sales information in customer management as taught by Sloane. One of ordinary skill in the art would be motivated to employ Sloane in order to motivate and alter purchasing decisions of customers (see Sloane col. 1, lines 11-15).

### ***Conclusion***

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kyung H. Shin whose telephone number is (571) 272-3920. The examiner can normally be reached on 9:30 am - 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on (571) 272-3923. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


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Patent Examiner  
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April 15, 2007



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